



ePTFE Fiber

SOLUTIONS

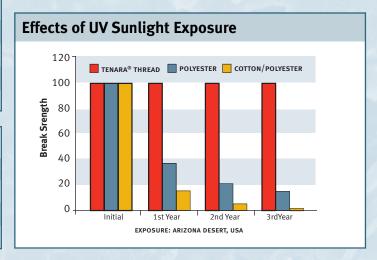
Maximizing Performance in the Harshest Environments

GORE™ ePTFE Fiber Properties up to 7 grams/denier (62cN/tex) **Tenacity** up to 2.5 grams/denier (22cN/tex) Tenacity at 200° C 50-8000 ksi Modulus 0.2-2.2 grams/cc Density **Melting Point** 340° C **Coefficient of Friction** 0.01-0.04 Flex Endurance (MIT) >10E6 cycles 0.1-0.3 W/mK Thermal Conductivity Thermal Conductivity (filled) 1.5 W/mK

| GORE™ ePTFE Fiber Flame Resistant (FR) Properties | |
|---|--------|
| Limiting Oxygen Index (LOI) | >95% |
| Vertical Flame Test (ASTM D6413) | PASS |
| Continuous Operating Temperature | 260° C |
| Water Regain | 0% |

GORE™ ePTFE Fiber Capabilities

Flat and Round Mono-filament 30 denier / 33 dtex and higher 200 denier / 222 dtex and higher **Fibrillated** "Staple" Fiber (dpf) 5 denier / 5.6 dtex and higher **Sewing Thread** >500 denier / >555 dtex Round Fiber Diameter 45 microns and higher











USA/Canada/Far East/Latin America/South America

Volume Resistivity (filled)

W. L. GORE & ASSOCIATES, INC. • 100 Airport Road, PO Box 1010 • Elkton, MD 21921 • USA Toll-Free: 1.800.276.8451 • Tel: +1.800.276.8451 • Fax: +1.410.506.8445

Europe/Middle East/Africa

W. L. GORE AND ASSOCIATES, GMBH • Wernher von Braun Strasse 18 • D-85640 Putzbrunn • GERMANY Tel: 49.89.4612.0 • Fax: 49.89.4612.2300

W. L. GORE & ASSOCIATES (CHINA) LTD. • 43F, United Plaza • 1468 Nanjing Road West • Shanghai 200040 • CHINA Tel: 86/21.6247.1999 • Fax: 86/21.6247.9199

>1 Ohm-cm

gore.com/fibers tenarafabric.com







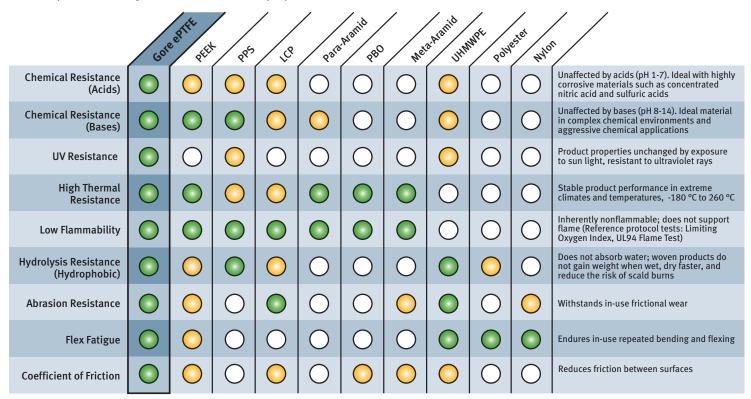


Advanced Performance through Revolutionary Fiber Technology

What is ePTFE?

GORE™ Fiber is composed of proprietary ePTFE – a uniquely designed fluoropolymer fiber – with a microporous structure and specific engineered physical qualities that transform products from the ordinary to the extraordinary.

Inherently, ePTFE has significant and distinctive properties:



Excellent Performance



Poor Performance

PEEK Polyetheretherketone
PPS Polyphenylene Sulfide
LCP Liquid crystal polymer

Poly p-phenylene-2,6-benzobisoxazole

Results from internal testing and data analysis by W. L. GORE and Associates.

NEW GORE™ Fibers

GORE™ Fibers are engineered to offer exceptional performance in a range of challenging environments. With a thorough scientific understanding of fluoropolymers, Gore has developed the unique capability to modify the characteristics of a fiber to meet the specific demands of varied applications. As an example, a new, patent-pending technology enables stabilized 100% PTFE fabrics that offer consistent spacing control, excellent fray resistance and minimal shrinkage. We offer fibers that meet industry demands for fabrics that are stronger, tougher, more abrasionresistant and retain tensile performance. We provide fibers that resist high temperatures and corrosive chemicals. We even have the ability to change the density or surface texture of a fiber while maintaining a 100% ePTFE structure.

A unique combination of properties and the most comprehensive portfolio of product attributes make GORE™ Fibers the best choice for a wide variety of critical applications.

Count on GORE™ Fibers for best-in-class performance.

High Density Low Density Stabilized Filled

GORE™ Fibers can be produced at a target density to make an ideal medium for additives such as catalysts, carbon, metals and pigments. New GORE™ Stabilized Fiber offers dimensional stability, low shrinkage and better filtration properties

Typical Fiber Density

